

Practice A

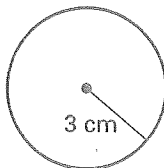
For use with pages 451–459

Match the key word with the descriptive phrase.

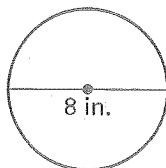
- | | |
|--|------------------|
| 1. the set of all points in a plane that are the same distance from a given point, called the center | A. diameter |
| 2. the distance from the center to a point on the circle | B. circumference |
| 3. the distance across the circle, through the center | C. circle |
| 4. the distance around a circle | D. radius |
| 5. an angle of a circle whose vertex is the center of the circle | E. sector |
| 6. a region of a circle determined by two radii and a part of the circle | F. central angle |

In Exercises 7–11, use the formula $C = \pi d$ or the formula $C = 2\pi r$ to find the circumference of the circle. Round your answer to the nearest whole number.

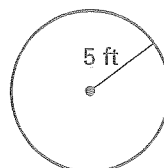
7.



8.



9.

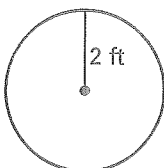


10. a circle with a radius of 2 yards

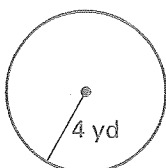
11. a circle with a diameter of 6 meters

Use the formula $A = \pi r^2$ to find the area of the circle. Round your answer to the nearest whole number.

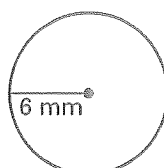
12.



13.



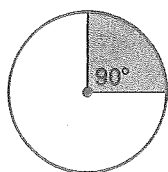
14.



A represents the area of the entire circle and x represents the area of the shaded sector. Complete the proportion used to find x . Do not solve the proportion.

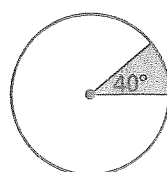
15. $A = 16 \text{ m}^2$

$$\frac{x}{?} = \frac{?}{360^\circ}$$



16. $A = 18 \text{ ft}^2$

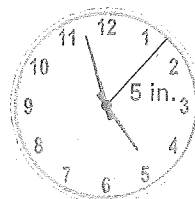
$$\frac{x}{?} = \frac{?}{360^\circ}$$



The radius of the face of the clock is 5 inches.

17. Find the circumference of the face of the clock. Round your answer to the nearest whole number.

18. Find the area of the face of the clock. Round your answer to the nearest whole number.



Practice B

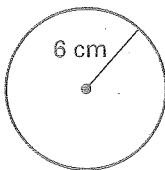
For use with pages 451–459

Complete the statement.

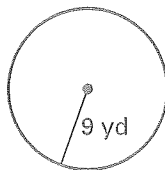
1. A circle is the set of all points in a plane that are the same distance from a given point, called the ? of the circle.
2. The distance from the center to a point on the circle is the ? .
3. The distance across the circle, through the center, is the ? .
4. The ? of a circle is the distance around the circle.
5. An angle whose vertex is the ? of a circle is a central angle of the circle.
6. A region of a circle determined by two ? and a part of the circle is called a sector of the circle.

Find the circumference of the circle. Round your answer to the nearest whole number.

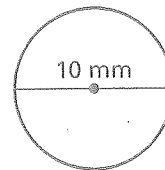
7.



8.

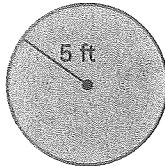


9.

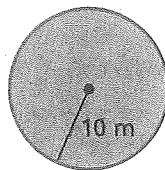


Find the area of the circle. Round your answer to the nearest whole number.

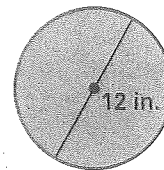
10.



11.



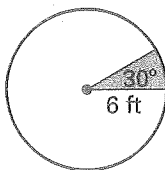
12.



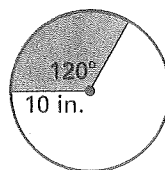
13. Find the radius of a circle with an area of 30 square units. Round your answer to the nearest whole number.
14. Find the diameter of a circle with an area of 50 square units. Round your answer to the nearest whole number.

Find the area of the shaded sector. Start by finding the area of the circle. Round your answer to the nearest whole number.

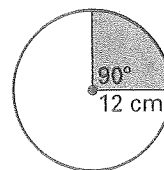
15.



16.



17.



The radius of the cherry pie is 4.5 inches.

18. Find the circumference of the pie. Round your answer to the nearest tenth.
19. Find the area of the top of the pie. Round your answer to the nearest tenth.
20. If a central angle of 45° is made when a piece of pie is cut, what is the area of the top of the piece of pie?

